

AMENDMENTS

The Version with Markings to Show Changes Made is found at pages 6-7 after Applicant's Remarks.

In the Specification:

Please delete page 10, lines 1-15, in their entirety, and insert therefor:

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~~Helix-Loop-Helix (bHLH) and Zinc-finger transcription factors results in conversion of non-~~
determined ectoderm into neuronal tissue. Additionally, forced expression of bHLH transcription
factors, NeuroD1, NeuroD2 (Lee, J.E. *et al.*, *Conversion of Xenopus ectoderm into neurons by neuroD,*
a basic helix-loop-helix protein, Science 268, 836-844 [1995]; McCormick, M.B. *et al.*, *NeuroD2*
and NeuroD3: distinct expression patterns and transcriptional activation potentials within the neuroD
gene family, Mol. Cell. Biol. 16, 5792-5800 [1996]), or neurogenin 1 (Ma, Q. *et al.*, *Identification of*
neurogenin, a vertebrate neuronal determination gene, Cell 87, 43-52 [1996]), or Zinc-finger
transcription factors MyT1 (Bellefroid, E.J. *et al.*, *X-MyT1, a Xenopus C2HC-type zinc finger protein*
with a regulatory function in neuronal differentiation, Cell 87, 1191-1202 [1996]) or Zic3 (Nakata
et al., [1997]), results in induction of additional neurogenic transcription factors and initiation of
neuronal differentiation of amphibian ectodermal cells.

In the claims:

Please amend Claims 1, 2, and 11 as follows:

Sub C'
1. (Amended) ~~A method of transdifferentiating an epidermal basal cell into a cell~~
having one or more morphological, physiological and/or immunological feature(s) of a neural
progenitor, neuronal, or glial cell, comprising:

(a) culturing a proliferating epidermal basal cell population comprising one or more
epidermal basal cell(s), said cell(s) derived from the skin of a mammalian subject;

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(b) transfecting said epidermal basal cell, in vitro, with one or more eukaryotic
expression vector(s) containing at least one cDNA encoding a human neurogenic transcription
factor, or homologous non-human counterpart, or active fragment(s) thereof, from the group